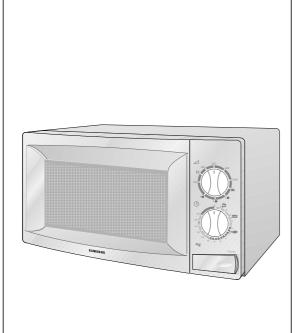


MICROWAVE OVEN

CE2618NR

SERVICE Manual

MICROWAVE OVEN



SRSC

CONTENTS

- 1. Precaution
- 2. Specifications
- 3. Operating Instructions
- 4. Disassembly and Reassembly
- 5. Alignment and Adjustments
- 6. Troubleshooting
- 7. Exploded Views and Parts List
- 8. Schematic Diagrams

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not operate or allow the oven to be operated with the door open.
- (b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
 - (1) Interlock operation,
 - (2) proper door closing,
 - (3) seal and sealing surfaces (arcing, wear, and other damage),
 - (4) damage to or loosening of hinges and latches.
 - (5) evidence of dropping or abuse.

- (c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- (d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- (e) A Microwave leakage check to verify compliance with the Federal performance standard should be performed on each oven prior to release to the owner.

1. Precaution

Follow these special safety precautions. Although the microwave oven is completely safe during ordinary use, repair work can be extremely hazardous due to possible exposure to microwave radiation, as well as potentially lethal high voltages and currents.

1-1 Safety precautions (!!)

- All repairs should be done in accordance with the procedures described in this manual. This product complies with Federal Performance Standard 21 CFR.
- Microwave emission check should be performed to prior to servicing if the oven is operative.
- If the oven operates with the door open:
 Instruct the user not to operate the oven and contact the manufacturer and the center for devices and radiological health immediately.
- Notify the Central Service Center if the microwave leakage exceeds 5 mW/cm².
- 5. Check all grounds.
- Do not power the MWO from a "2-prong"
 AC cord. Be sure that all of the built-in
 protective devices are replaced. Restore any
 missing protective shields.
- When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
- Make sure that there are no cabinet openings through which people --particularly children --might insert objects and contact dangerous voltages. Examples: Lamp hole, ventilation slots.
- Inform the manufacturer of any oven found to have emission in excess of 5 mW/cm², Make repairs to bring the unit into compliance at no cost to owner and try to determine cause.

Instruct owner not to use oven until it has been brought into compliance.

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Service technicians should remove their watches while repairing an MWO.

- 11. To avoid any possible radiation hazard, replace parts in accordance with the wiring diagram. Also, use only the exact replacements for the following parts: Primary and secondary interlock switches, interlock monitor switch.
- 12. If the fuse is blown by the Interlock Monitor Switch: Replace all of the following at the same time: Primary, door sensing switch and power relay, as well as the Interlock Monitor Switch. The correct adjustment of these switches is described elsewhere in this manual. Make sure that the fuse has the correct rating for the particular model being repaired.
- 13. Design Alteration Warning:
 Use exact replacement parts only, i.e.,
 only those that are specified in the
 drawings and parts lists of this manual.
 This is especially important for the
 Interlock switches, described above.
 Never alter or add to the mechanical or
 electrical design of the MWO. Any design
 changes or additions will void the
 manufacturer's warranty. Always unplug
 the unit's AC power cord from the AC
 power source before attempting to
 remove or reinstall any component or
 assembly.
- 14. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
- 15. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and field-effect transistors. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground.
- 16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-2 Special Servicing Precautions (Continued)

- 17. When checking the continuity of the witches or transformer, always make sure that the power is OFF, and one of the lead wires is disconnected.
- 18. Components that are critical for safety are indicated in the circuit diagram by shading, 1 or 1/2
- 19. Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-3 Special High Voltage Precautions

- 1. High Voltage Warning
 - Do not attempt to measure any of the high voltages --this includes the filament voltage of the magnetron. High voltage is present during any cook cycle.
 - Before touching any components or wiring, always unplug the oven and discharge the high voltage capacitor (See Figure 1-1)
- The high-voltage capacitor remains charged about 30 seconds after disconnection. Short the negative terminal of the high-voltage capacitor to to the oven chassis. (Use a screwdriver.)
- 3. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

PRECAUTION

There exists HIGH VOLTAGE ELECTRICITY with high current capabilities in the circuits of the HIGH VOLTAGE TRANSFORMER secondary and filament terminals. It is extremely dangerous to work on or near these circuits with the oven energized.

DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.

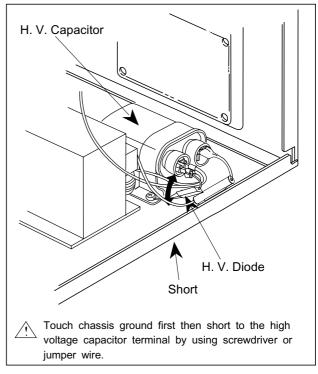


Fig. 1-1 Discharging High Voltage Capacitor

PRECAUTION

Never touch any circuit wiring with your hand nor with uninsulated tool during operation.

PRECAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.

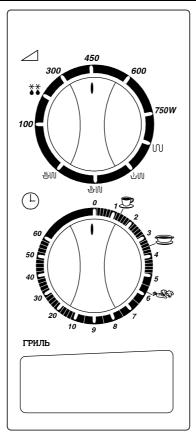
2. Specifications

2-1 Table of Specifications

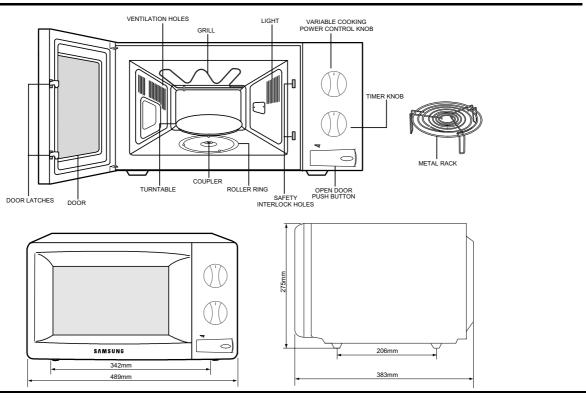
TIMER	60 MINUTES
POWER SOURCE	230V 50Hz, AC
POWER CONSUMPTION	MICROWAVE : 1,200W
	GRILL: 1100W
OUTPUT POWER	FROM 100 TO 750W
	(IEC-705 TEST PROCEDURE)
OPERATING FREQUENCY	2,450MHz
MAGNETRON	OM75P(31)ESS
COOLING METHOD	COOLING FAN MOTOR
OUTSIDE DIMENSIONS	489(W) x 275(H) x 383(D)
OVEN DIMENSIONS	306(W) x 181(H) x 320(D)
SHIPPING DIMENSIONS	557(W) x 329(H) x 418(D)
SHIPPING WEIGHT APPROX.	NET 14.5kg
	GROSS 16.0kg

3. Operating Instructions

3-1 Control Panel



3-2 Features & External Views



4. Disassembly and Reassembly

4-1 Replacement of Magnetron, Motor Assembly and Lamp

Remove the magnetron including the shield case, permanent magnet, choke coils and capacitors (all of which are contained in one assembly).

- 1. Disconnect all lead wires from the magnetron and lamp.
- 2. Remove a screw securing air cover.
- 3. Remove the air cover.
- 4. Remove screws securing the magnetron to the wave guide.
- 5. Take out the magnetron very carefully.
- 6. Remove nuts from the back panel.
- 7. Take out the fan motor.
- 8. Remove the oven lamp by rotating to pull out from hole of air cover.
 - NOTE1: When removing the magnetron, make sure that its antenna does not hit any adjacent parts, or it may be damaged.
 - NOTE2: When replacing the magnetron, be sure to remount the magnetron gasket in the correct position and make sure the gasket is in good condition.

4-2 Replacement of High Voltage Transformer

- 1. Discharge the high voltage capacitor.
- 2. Disconnect all the leads.
- 3. Remove the mounting bolts.
- 4. Reconnect the leads correctly and firmly.

PRECAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.

PRECAUTION

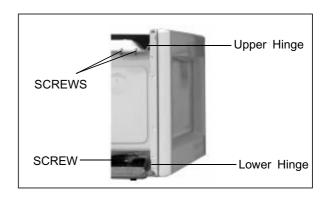
There exists HIGH VOLTAGE ELECTRICITY with high current capabilities in the circuits of the HIGH VOLTAGE TRANSFORMER secondary and filament terminals. It is extremely dangerous to work on or near these circuits with the oven energized.

DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.

4-3 Replacement of Door Assembly

4-3-1 Removal of Door Assembly

Remove hex bolts securing the upper hinge and lower hinge. Then remove the door assembly.



4-3-2 Removal of Door "C"

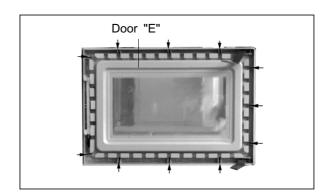
Insert flat screwdriver into the gap between Door "A" and Door "C" to remove Door "C". Be careful when handling Door "C" because it is fragile. Then remove the door assembly.



4-3-3 Removal of Door "E"

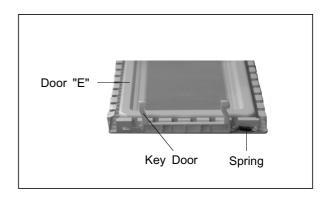
Following the procedure as shown in the figure, insert and bend a thin metal plate between Door "E" and Door "A" until you hear the 'tick' sound.

- Insertion depth of the thin metal plate should be 0.5mm or less.



4-3-4 Removal of Key Door & Spring

Remove pin hinge from Door "E" Detach spring from Door "E" and key door.



4-3-5 Reassembly Test

After replacement of the defective component parts of the door, reassemble it and follow the instructions below for proper installation and adjustment so as to prevent an excessive microwave leakage.

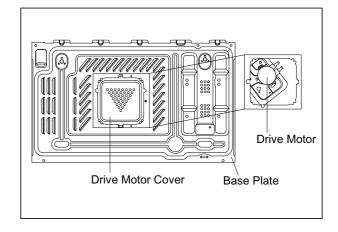
- 1. When mounting the door to the oven, be sure to adjust the door parallel to the bottom line of the oven face plate by moving the upper hinge and lower hinge in the direction necessary for proper alignment.
- 2. Adjust so that the door has no play between the inner door surface and oven front surface. If the door assembly is not mounted properly, microwave energy may leak from the space between the door and oven.
- 3. Do the microwave leakage test.

4-4 Replacement of Fuse

- 1. Disconnect the oven from the power source.
- 2. When 15A fuse blows out by the operation of interlock monitor switch failure, replace the primary interlock switch, door sensing switch, monitor switch and power relay.
- 3. When the above three switches operate properly, check if any other part such as the control circuit board, blower motor or high voltage transformer is defective.

4-5 Replacement of Drive Motor

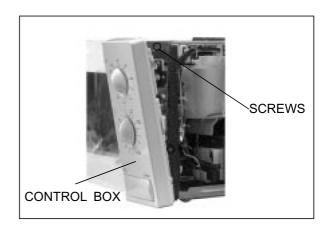
- Take out the glass tray, guide roller and coupler from cavity.
- 2. Turn the oven upside down to replace the drive motor.
- 3. Remove a screw securing the drive motor cover.
- 4. Disconnect all the lead wires from the drive motor.
- 5. Remove screws securing the drive motor to the cavity.
- 6. Remove the drive motor.
- 7. When replacing the drive motor, be sure to remount it in the correct position.
- 8. Connect all the leads to the drive motor.
- 9. Screw the drive motor cover to the base plate with a screw driver.
- 10. Remount the coupler in the correct position.



4-6 Replacement of Control Circuit Board

4-6-1 Removal of Control Box Assembly

- 1. Disconnect the connectors from the control box assembly.
- 2. Remove screws securing the control box assembly.
- 3. Remove the knobs of the control box Ass'y.
- 4. Remove the screw securing the timer.



5. Alignment and Adjustments

PRECAUTION

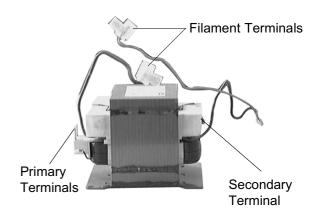
- 1. High voltage is present at the high voltage terminals during any cook cycle.
- 2. It is neither necessary nor advisable to attempt measurement of the high voltage.
- 3. Before touching any oven components or wiring, always unplug the oven from its power source and discharge the high voltage capacitor.

5-1 High Voltage Transformer

- 1. Remove connectors from the transformer terminals and check continuity.
- 2. Normal resistance readings are as follows:

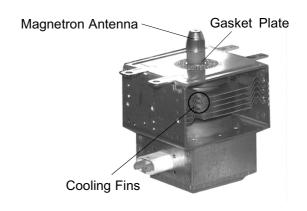
Secondary	Approx. 139 Ω
Filament	Approx. 0Ω
Primary	Approx. 1.94Ω

(Room temperature = 20°C)



5-2 Magnetron

- Continuity checks can indicate only an open filament or a shorted magnetron. To diagnose an open filament or shorted magnetron :
- 2. Isolate the magnetron from the circuit by disconnecting its leads.
- 3. A continuity check across the magnetron filament terminals should indicate one ohm or less.
- 4. A continuity check between each filament terminal and magnetron case should read open.



6. Troubleshooting

WARNING FOR HIGH VOLTAGE

4000 VOLTS EXIST AT THE HIGH VOLTAGE AREA. DO NOT OPERATE THE OVEN WITH CABINET PARTS REMOVED. DO NOT REMOVE THE CABINET PARTS IF THE POWER SUPPLY CORD IS PLUGGED IN THE WALL OUTLET. UNPLUG THE POWER CORD BEFORE SERVICING.

6-1 Electrical Malfunction

Parts	Cause	Diagnosis	Remedy
Fuse blows out when	Defective primary interlock switch ary winding.	Check continuity of the primary switch terminals with wire removed using a multimeter. If there is continuity inter between switch terminals when door is opened,the switch is defective.	Replace the primary interlock switch
door is opened.	Defective interlock monitor switch	Check continuity of the monitor switch terminals with wire removed by using a multimeter. If there is continuity between switch terminals the door is closed, the switch is defective.	Replace the interlock monitor switch
Fuse is Open	Layer short of the secondary coil of H. V. Transformer	Replace H. V.Transformer	
	1) Fuse blown out	Check fuse.	Replace the fuse.
	Poor contact of power cord.	Check continuity of power supply cord. Also check whether the power cord is securely wired.	Adjust or replace the power supply cord
Oven lamp does not	3) Defective lamp	The fan motor rotates, but lamp does not light.	Replace the lamp.
light.	Defective timer contacts	Check the terminals of timer for continuity,turning the timer knob ON and OFF repeatedly.	Replace the timer.
	5) Thermal cutout S/W open	In this case the oven lamp and fan do not turn on	Replace the thermal cutout S/W
Fan does not operate.	Defective fan motor.	If 230V is found at motor terminals, the motor should be replaced.	Replace the motor.
	2) Defective contacts of timer	The oven lamp does not light and fan motor does not operate.	Replace the timer.

NOTE: Interlock monitor switch must be replaced when the fuse is blown out.

6-1 Electrical Maltunction(continved)

part	Cause	Diagnosis	Remedy
Microwave	1) Too small a load	If a small amount of food is heated for a long time, period of microwave may turn off during operation.	To increase the oven water intowater into the oven.
turns off during cook -ing cycle.	2)Defective magnetron thermal cutout S/W	Check to see if the magnetron thermal cutout switch is activated at a temperature higher than 150 $^{\circ}\!\mathbb{C}$.	Replace thermal cutout switch.
properly shock is felt.	In complete grounding	Make sure that grounding of the power supply cord has been done properly.	Rewire.
Door doe not	1) Broken door hinges	Remove the cabinet for inspection. Check the door hinge.	Replace door hinges.
operate properly	2) Missing or loose screw	Check if the screws are secured well to the door hinge.	Fasten or tighten.
Timer does	Defective timer motor	If the timer does not operate with 21V applied to the terminals, the timer motor amy be faulty.	Replace timer.
not operate.	2) Defective contacts of timer S/W	The lamp does not light.	Replace timer
Cooking tray	Defective drive motor	Check to see if 21V exists at the motor terminals.If so, motor will be defective.	Replace drive motor.
does not rotate.	Blocking of the ventilator	Check if the air inlet or outlet ventilation is blocked by the wall or other objects.	Keep a distance of 100mm from thewall or the objects.
Magnetron thermal	Defective fan motor	If the fan motor does not operate with 230V applied to the terminal, the motor may be faulty.	Replace fan motor.
cutout switch OFF	3) Too small a load or no load	If a small amount of food is heated repeatedly over a long period of time, microwave turns off during operation.	To increase the oven load, place a glass of water into the oven.

6-2 Unsatisfactory Cooking

Parts Cause		Diagnosis	Remedy	
	Open cathode of magnetron	Check the terminals with a multimeter to see if the heater circuit is open.	Replace magnetron.	
	2) Defective H. V. Diode	Check the H. V. Diode for continuity in the reverse and normal directions using megger. If there is continuity in the reverse direction, the H. V. Diode may be faulty. (In this event H. V. Capacitor will be hot)	Replace H. V. Diode.	
	3) Shorted magnetron	Connect megger leads to quick-connect terminal & body of the magnetron if there is continuity, the magnetron may be fuse will be blown) faulty. (In this case the main fuse will be blown)	Replace magnetron.	
Food is not heated.	Defective magnetron	If there is a crack in the magnetron antenna (dome), the magnetron is defective.	Replace magnetron.	
	5) Poor contact of primary interlock switch	Check if the screws are secured well to the door hinge. and pressing it ON and OFF repeatedly.	Replace or adjust.	
	6) Open coil of H. V. Trans- former	Check the continuity of primary coil and secondary coil. If there is no continuity, H. V. Transformer is defective.	Replace the H. V. Transformer.	
	7) Shorted H. V. capacitor	Check the continuity of capacitor. If the capacitor shorts, the fuse blows	Replace the H. V. Capacitor.	
	8) Monitor fuse blown out	Check the monitor fuse (on the noise filter)	Replace the Monitor fuse	

6-3 Part Check List

Symptom	Related Parts	Check Points		
Microwave	H.V.Transformer	 Check if the primary and secondary coil is open or shorted. * Resistance of primary coil: . 1.94Ω Approx Resistance of secondary coil: Approx. 139Ω Check if the MGT Heater Voltage is Approx. 3.3V AC. Caution: High voltage! 		
not work.	H.V.Capacitor	Check continuity of capacitor between two terminals with H.V.wire lead removed. The resistance should be approx. $10M_{\Omega}$, it's failure		
	H.V.Diode	 If there is no continuity in forward, direction the H.V.Diode is open. If there is continuity in reverse direction, it's shorted. 	Replace.	
Fan motor does not rotate.	Fan motor	Check if the motor coil is open.	Replace.	

5-3 High Voltage Capacitor

- 1. Check continuity of the capacitor with the meter set at the highest resistance scale.
- 2. Once the capacitor is charged, a normal capacitor shows continuity for a short time, and then indicates 9M Ω.
- 3. A shorted capacitor will show continuous continuity.
- 4. An open capacitor will show constant $9M\Omega$.
- 5. Resistance between each terminal and chassis should read infinite.

5-4 High Voltage Diode

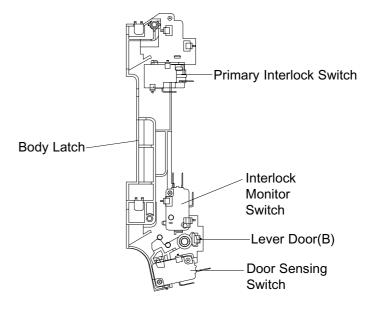
- 1. Isolate the diode from the circuit by disconnecting its leads.
- 2. With the ohm-meter set at the highest resistance scale, measure across the diode terminals. Reverse the meter leads and read the resistance. A meter with 6V, 9V or higher voltage batteries should be used to check the front-to back resistance of the diode (otherwise an infinite resistance may be read in both directions). The resistance of a normal diode will be infinite in one direction and several hundred KΩ in the other direction.

5-5 Adjustment of Primary Switch, Door Sensing Switch and Monitor Switch

Precaution

For continued protection against radiation hazard, replace parts in accordance with the wiring diagram and be sure to use the correct part number for the following switches: Primary and secondary interlock switches, and the interlock monitor switch (replace all together). Then follow the adjustment procedures below. After repair and adjustment, be sure to check the continuity of all interlock switches and the interlock monitor switch.

- 1. When mounting Primary switch and Interlock Monitor switch to Latch Body, consult the figure.
- 2. No specific adjustment during installation of Primary switch and Monitor switch to the latch body is necessary.
- 3. When mounting the Latch Body to the oven assembly, adjust the Latch Body by moving it so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the Latch Body to the oven assembly.
- Reconnect to Monitor switch and check the continuity of the monitor circuit and all latch switches again by following the components test procedures.
- 5. Confirm that the gap between the switch housing and the switch actuator is no more than 0.5mm when door is closed.
- 6. Interlock Switch Replacement When replacing faulty switches, be sure switch mounting tabs are not bent, broken or otherwise deficient in their ability to secure the switches in place.



	Door Open	Door Closed
Primary switch	∞	0
Monitor switch(COM-NC)	0	∞
Monitor switch (COM-NO)	∞	0
Door Sensing S/W	∞	0

5-6 Output Power of Magnetron

CAUTION MICROWAVE RADIATION

PERSONNEL SHOULD NOT ALLOW EXPOSURE TO MICROWAVE RADIATION FROM MICROWAVE GENERATOR OR OTHER PARTS CONDUCTING MICROWAVE ENERGY.

The output power of the magnetron can be measured by performing a water temperature rise test. Equipment needed :

- * Two 1-liter cylindrical borosilicate glass vessel (Outside diameter 190 mm)
- * One glass thermometer with mercury column

NOTE: Check line voltage under load. Low voltage will lower the magnetron output. Make all temperature and time tests with accurate equipment.

- 1. Fill the one liter glass vessel with water.
- 2. Stir water in glass vessel with thermometer, and record glass vessel's temperature ("T1", 10±1°C).
- 3. After moving the water into another glass vessel, place it in the center of the cooking tray. Set the oven to high power and operate for 58seconds exactly. (3 seconds included as a holding time of magnetron oscillation:)
- 4. When heating is finished, stir the water again with the thermometer and measure the temperature ("T2").
- 5. Subtract T1 from T2. This will give you the water temperature rise. (\triangle T)
- 6. The output power is obtained by the following formula;

Output Power =
$$4.187 \times 1000 \times \triangle T + 0.55 \times Mcx(T_2 - T_0)$$

58 : Heating Time (sec) 55 : Counting Time (sec) 4.187 : Coefficient for Water

1000 : Water (cc)

△T : Temperature Rise (T2-T1) To : Room Temperature

Mc: Cylindrical borosilicate glass weight

7. Normal temperature rise for this model is 9°C to 11°C at 'HIGH'.

NOTE 1: Variations or errors in the test procedure will cause a variance in the temperature rise. Additional power test should be made if temperature rise is marginal.

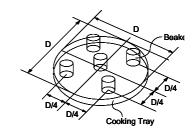
NOTE 2: Output power in watts is computed by multiplying the temperature rise (step 5) by a factor of 91 times the of centigrade temperature.

5-7 Microwave Heat Distribution - Heat Evenness

The microwave heat distribution can be checked indirectly by measuring the water temperature rise at certain positions in the oven:

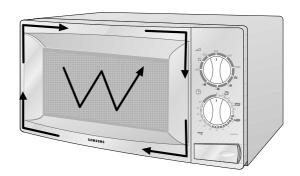
- 1. Prepare five beakers made of 'Pyrex', having 100 milliliters capacity each.
- 2. Measure exactly 100milliliters off water load with a measuring cylinder, and pour into each beaker.
- 3. Measure the temperature of each water load. (Readings shall be taken to the first place of decimals.)
- 4. Put each beaker in place on the cooking tray as illustrated in figure below. Start heating.
- 5. After heating for 2 minutes, measure the water temperature in each beaker.
- 6. Microwave heat distribution rate can be calculated as follows:

The result should exceed 65%.



5-8 Procedure for Measurement of Microwave Energy Leakage

- 1) Pour 275±15cc of 20±5°C(68±9°F) water in a beaker which is graduated to 600cc, and place the beaker in the center of the oven.
- 2) Start to operate the oven and measure the leakage by using a microwave energy survey meter.
- 3) Set survey meter with dual ranges to 2,450MHz.
- 4) When measuring the leakage, always use the 2 inch spacer cone with the probe. Hold the probe perpendicular to the cabinet door. Place the spacer cone of the probe on the door and/or cabinet door seam and move along the seam, the door viewing window and the exhaust openings moving the



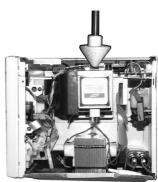
probe in a clockwise direction at a rate of 1 inch/sec. If the leakage testing of the cabinet door seam is taken near a corner of the door, keep the probe perpendicular to the areas making sure that the probe end at the base of the cone does not get closer than 5cm to any metal. If it gets closer than 5cm, erroneous readings may result.

5) Measured leakage must be less than 4mW/cm², after repair or adjustment.

Maximum allowable leakage is 5mW/cm². 4mW/cm² is used to allow for measurement and meter accuracy

5-9 Check for Microwave Leakage

- 1. Remove the outer panel.
- 2. Pour 275±15cc of 20±5°C(68±9°F) water in a beaker which is graduated to 600cc, and place the beaker in the center of the oven.
- 3. Start the oven at the highest power level.
- 4. Set survey meter dual ranges to 2,450MHz.
- 5. Using the survey meter and spacer cone as described above, measure near the opening of magnetron, the surface of the air guide and the surface of the wave guide as shown in the following photo.(but avoid the high voltage components.) The reading should be less than 4mW/cm².



5-10 Note on Measurement

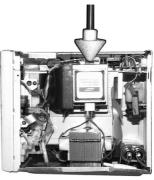
- 1) Do not exceed the limited scale.
- 2) The test probe must be held on the grip of the handle, otherwise a false reading may result when the operator's hand is between the handle and the probe.
- When high leakage is suspected, do not move the probe horizontally along the oven surface; this may cause damage to the probe.
- 4) Follow the recommendation of the manufacturer of the microwave energy survey meter.

5-11 Leakage Measuring Procedure

- 5-11-1 Record keeping and notification after measurement
- 1) After adjustment and repair of a radiation preventing device, make a repair record for the measured values, and keep the data.
- 2) If the radiation leakage is more than 4 mW/cm² after determining that all parts are in good condition, functioning properly and the identical parts are replaced as listed in this manual notify that fact to;

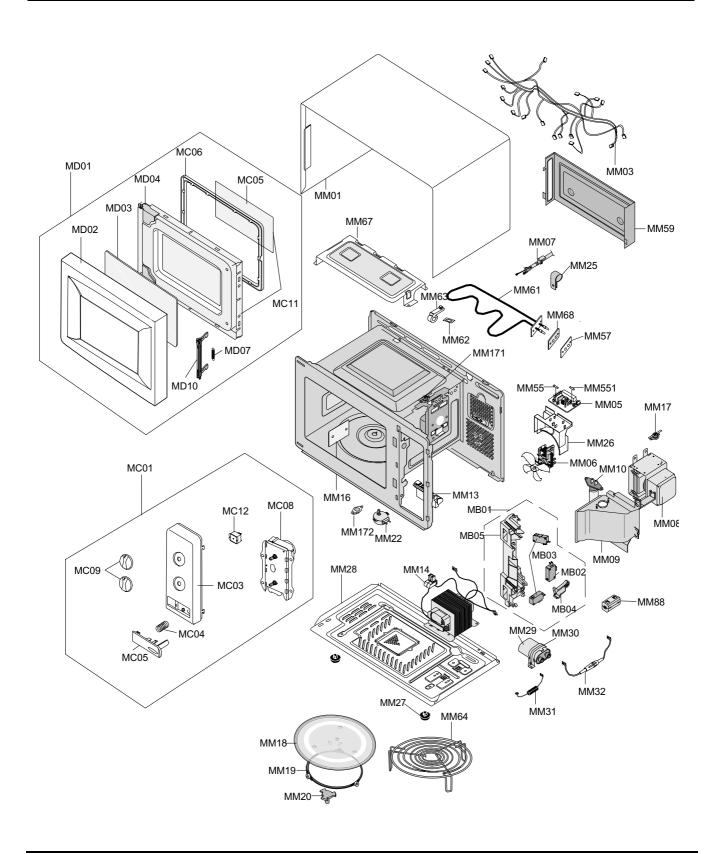
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5-11-2 At least once a year have the microwave energy survey meter checked for accuracy by its manufacturer.



7. Exploded Views and Parts List

7-1 Exploded Views



7-2 Main Parts List

No.	Code No.	Description	Specification	Q'ty	Remark
MB01	DE96-00115C	ASSY BODY LATCH	CE2611N,NC2000(BUTTON)	1	
MB02	3405-000175	SWITCH-MICRO	250V,15A,200gf,SPST-NO	1	
MB03	3405-000178	SWITCH-MICRO	250V,15A,200gf,SPST-NO	2	PRI, SEC
MB04	DE66-00088A	LEVER-SWITCH	NC2000(0.6/0.8/1.2),PP,-,-,-,NTR,BUTTON-TYPE	1	
MB05	DE72-00138A	BODY-LATCH	PP,-,-,-,WHT,NC2000(0.6/0.8/1.2),BUTTON-TYPE	1	
MM01	DE70-00184A	PANEL-OUTER	SECC,T0.5,-,-,PCM,MW850WA(0.8CUFT),NC2000	1	
MM03	DE39-00037B	WIRE HARNESS-A	CE2713N,-,-,-,-,-,-,230V50HZ,-,-,-,NC2000	1	
MM05	DE96-00008C	ASSY NOISE FILTER	SN-3WEH,250V15A,3W INRUSH D,-,-,-	1	
MM06	DE96-00031A	ASSY-MOTOR FAN	SMF-3RDEA,230V50HZ,2400RPM,M1733,-,-,-	1	
MM07	DE39-20058L	ASSY POWER CORD	-,230V50HZ,-,GRY,CE2713/XEF,1.5SQ	1	
MM08	OM75P(31)ESS	ASSY-MAGNETRON	OM75PH(31)ESS	1	
MM09	DE71-60457B	COVER-AIR	PP,-,-,-,3RD-0.7(BTM),-	1	
MM10	4713-001031	LAMP-INCANDESCENT	230V,173mA,40W,ORG,-,-,25x69mm	1	CV/AIR
MM13	DE66-90113A	LEVER-DOOR	PP(TB53-GH41),T2.5,-,-,12g,NTR,3RD-W,-	1	
MM14	DE26-00059A	TRANS-H.V	SHV-E1713A,230V,50HZ,2130V/3.65V,-,-,-,-	1	
MM16	DE71-00159A	COVER-CEILING	MICA SHEET,T0.3,W114,L56,-,CN2835,NC0.8cu.ft	1	
MM17	DE47-20009A	THERMOSTAT	PW2N-520PB,160/60,250V/7.5A,H,	1	MG-TCO
MM171	DE47-00002B	THERMOSTAT	PW2N,-,-,100,110,-,-,-,187H,30.0	1	GRI-TCO
MM172	DE47-20010A	THERMOSTAT	PW-2N(120/60)187Y,250V7.5A,120	1	CAV-TCO
MM18	DE74-20102B	TRAY-COOKING	GLASS,T5.0,PI288,780G,M745,-,-	1	
MM19	DE97-00193B	ASSY-GUIDE ROLLER	NC2000 0.6,T2*P1198(14.5PI),-,-	1	
MM20	DE67-00140A	COUPLER	NC2000(0.6~0.8),PPS(ESS840),-,BRN,NEW	1	
MM22	DE31-10154A	MOTOR-SYNCHRONOUS	M2HJ49ZR02,ST-16,50/60HZ,-	1	
MM25	DE65-20014A	CABLE CLAMP	DA-6N,NY-66,-,-,-,-	1	P-CORD
MM26	DE71-00148A	COVER-BLOWER	PP,T1.5,-,-,NTR,MW850WA,NC2000(0.8CUFT)	1	
MM27	DE61-40066A	FOOT	PP,BLK,-,-,3RD-W,-	2	
MM28	DE80-00023B	BASE-PLATE	SGCC1,T0.6,-,-,CE2877N,NC2000	1	
MM29	2501-001016	C-OIL	950nF,2.1KV,BK,35x54x80,20mm	1	
MM30	DE61-00139A	BRACKET-HVC	NC2000,SECC,T0.8,-,-,-,0.6/0.8/1.2CUFT	1	
MM31	DE59-00002A	DIODE-H.V	ESJC13-12B,12KV,-,-,-,MWO ALL,-	1	
MM32	DE91-70061C	ASSY-H.V.FUSE	THV060T-0700-H,5KV/0.70A,BLU	1	
MM59	DE71-60451A	COVER-BACK	SECC,T0.5,W115,L332,-,3RD-0.7,	1	
MM60	DE63-00049A	GASKET-HEATER	CE2613N,BRASS,T1.0,W53,L15,-,-,-	1	
MM61	DE47-00016A	HEATER	SHG-2638E,-,-,1100W,4.6A,230V,48.5OHM,-,-,-	1	
MM62	DE61-70060A	SPRING-PLATE	SK-5,T0.5,-,-,-,-	1	
MM63	DE61-30008A	SUPPORTER-HEATER	ALUMINA,T12,CE745G,-,-,-	1	
MM64	DE74-70071D	RACK-WIRE	MSWR10,PI3,0.7/NC2000,D230,H85,-,-	1	
MM67	DE61-00143A	BRACKET-UPPER	MW850WA,SECC,T0.5,-,-,-,NC2000(0.8CUFT)	1	
MM88	DE73-90027B	FERRITE	RU65(RU15*28.6*6.5),-,M2L(FE2O3+Ni+Zn) ,-,-,-	1	

7-3 Control & Door Parts List

No.	Code No.	Description	Specification	Q'ty	Remark
MC01	-	ASSY CONTROL-BOX	-,CE2618NR/BWT,PURE-WHT,-	1	S.N.A
MC03	DE72-00026U	CONTROL-PANEL	CE2618NR/BWT,-,-,-,-,W9501,-	1	
MC04	DE61-70076A	SPRING-BUTTON	HSWR,PI0.6,-,-,-,-	1	
MC05	DE66-20275A	BUTTON-PUSH	ABS(HR0370U),-,9G,P/WHT(W9501),-,-,-	1	
MC08	DE45-00003A	TIMER	TMFK60M1A1,-,-,-,-,310 GRILL	1	
MC09	DE64-00269A	KNOB	M1912,ABS,-,WHT,-,-,-	2	
MC12	3501-000309	RELAY-POWER	240V,3750VA,15A,-,6mS,20mS	1	
MD01	DE94-00256W	ASSY DOOR	CE2618NR/CE2638NR/BWT,PURE-WHT,-	1	
MD02	DE64-00091U	DOOR-A	M1618R/BWT,ABS,-,P/WHT,-,-	1	
MD03	DE67-20186A	SCREEN-DOOR	SAN,T2.2,W354,L224,SMOG,3RD-0.7CU.FT,-	1	
MD04	DE92-50133F	ASSY DOOR-E	CE2733(3RD-0.7),BLK-CAOTING,-,2ND-HINGE,-,-,-	1	
MD05	DE01-00112B	FILM-DOOR	PET,T0.15,W150,L268,NTR,3RD-GRILL,-	1	
MD06	DE64-40008B	DOOR-C	PP,T1.5,BLK,CE745G,-,-,-	1	
MD07	DE61-00132A	SPRING-KEY	M1733,HSWR,D6,-,-,18 1/4,-,T0.6,-,-,NEW	1	
MD08	DE61-00145A	HINGE-UPPER	NC2000(GRILL),SCP,T2.0,-,-,ZPC3,-,-	1	
MD09	DE61-00146A	HINGE-LOWER	NC2000,SCP,T2.0,-,-,ZPC3,GRILL,-	1	
MD10	DE64-00264A	DOOR-KEY	3RD-W NEW,POM,-,BLK,-,-,-	1	

S.N.A: SERVICE NOT AVAILABLE

7-4 Standard Parts List

Code No.	Description	Specification	Q'ty	Remark
DE60-10012A	SCREW-TAP TITE	TH,+,3,M4,L10,SWR10,ZPC2,TOOTH	1	GRI-TCO
DE60-10012A	SCREW-TAP TITE	TH,+,3,M4,L10,SWR10,ZPC2,TOOTH	1	P-CORD
DE60-10080B	SCREW-WASHER	PH,PI5,L10,SWRCH18A,ZP2,2S,-,-	4	HVT
DE60-10080B	SCREW-WASHER	PH,PI5,L10,SWRCH18A,ZP2,2S,-,-	4	MGT
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	2	B-LATCH
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	3	B-PLATE
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	2	B-UPPER
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	1	C-BLOWER
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	1	CON-BOX
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	1	COVER-AIR
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	4	OUT-PANEL
DE60-10098A	SCREW-ASSY TAP TITE	PH,TC,M4X8,SWRCH18A,ZPC2,GLD,W	1	CVT-TCO
DE60-10098A	SCREW-ASSY TAP TITE	PH,TC,M4X8,SWRCH18A,ZPC2,GLD,W	1	D-MOTOR
DE60-10098A	SCREW-ASSY TAP TITE	PH,TC,M4X8,SWRCH18A,ZPC2,GLD,W	2	MGT-TCO
DE60-10122A	SCREW-TAP TH	TAP,TH,2-4X8,FE,FN,-,-,-,-	1	P-OUTER
DE60-10195A	SCREW-STAR POLE	TH,*,2,4,12,SWCH18A,ZNC,-,-,-	2	C-BACK
DE60-20063A	BOLT-FLANGE	M4,10,ZPC3,YEL,MSWR,-,-,-,-	2	H/LOWER
DE60-20063A	BOLT-FLANGE	M4,10,ZPC3,YEL,MSWR,-,-,-,-	2	H/UPPER
DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-	2	F-MOTOR
DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-	2	HEATER
DE60-10072A	SCREW-TAP TH	TH,M4,L16,FEFZY,2-SLOT,-,-,-	4	TIMER
DE60-10082H	SCREW-A	2S-4X12,TOOTHED,-,-,-,-,-,	1	RELAY
DE60-10098A	SCREW-ASSY TAP TITE	PH,TC,M4X8,SWRCH18A,ZPC2,GLD,W	1	HVD
DE60-10012A	SCREW-TAP TITE	TH,+,3,M4,L10,SWR10,ZPC2,TOOTH	1	

8. Schematic Diagrams

8-1 Schematic Diagrams

